

June 28, 2001

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Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Atty. Docket No.	Serial No.
	56132USA9A	09/771,757
	Applicant	
	MIKE E. HAMERLY et al.	
	Filing Date	Group
	01/29/2001	2874

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date MM/DD/YY	Name	Class	Subclass	Filing Date If Appropriate
	4,954,789	09/04/1990	Sampsel			
	4,975,729	12/04/1990	Gordon			
	5,024,500	06/18/1991	Stanley et al.			
	5,037,173	08/06/1991	Sampsel et al.			
	5,109,459	04/28/1992	Elbert et al.			
	5,208,880	05/04/1993	Riza et al.			
	5,528,710	06/18/1996	Burton et al.			
	5,661,611	08/26/1997	Kim et al.			
	5,646,768	07/08/1997	Kaeriyama			
	5,646,928	07/08/1997	Wu et al.			
	5,652,671	07/29/1997	Kripe et al.			
	5,745,271	04/28/1998	Ford et al.			
	5,748,811	05/05/1998	Amersfoort et al.			
	5,768,006	06/16/1998	Min et al.			
	5,774,604	06/30/1998	McDonald			
	5,786,915	07/28/1998	Scobey			
	5,805,331	09/08/1998	Lee			

FOREIGN PATENT DOCUMENTS

Name	Document Number	Date MM/DD/YY	Country	Class	Subclass	Translation Yes/No
Burt	0 569 187 A1	11/10/1993	EP	385	16X	Yes
Burt	0 672 931 A1	09/20/1995	EP	385	16X	Yes
Burt	0 713 117 A1	05/22/1996	EP	385	16X	Yes
Burt	0 762 161 A1	03/12/1997	EP	385	15X	No
Burt	0 771 121 A2	10/25/1997	EP	385	901X	Yes
Burt	0 783 124 A1	07/09/1997	EP	385	1X	Yes
Burt	0 794 558 A1	09/10/1997	EP	385	1X	Yes

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

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Examiner B. Healy date considered 1/25/03
lined references have already been considered on
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U.S. PATENT DOCUMENTS							
Examiner Initial	Document Number	Date MM/DD/YY	Name	Class	Subclass	Filing Date If Appropriate	
—	5,818,623	10/06/1998	Valette et al.				
—	5,862,003	01/19/1999	Saif et al.				
—	5,872,880	02/16/1999	Maynard				
—	5,877,889	03/02/1999	Um et al.				
—	5,878,177	03/02/1999	Karason et al.				
—	5,886,811	03/23/1999	Min				
—	5,900,998	05/04/1999	Kim et al.				
—	5,903,383	05/11/1999	Bernstein et al.				
—	5,914,801	06/22/1999	Dhuler et al.				
—	5,914,803	06/22/1999	Hwang et al.				
—	5,923,798	07/13/1999	Aksyuk et al.				
—	5,936,757	08/10/1999	Kim et al.				
—	5,943,158	08/24/1999	Ford et al.				
—	5,959,376	09/28/1999	Allen				
—	5,959,749	09/28/1999	Danagher et al.				
—	5,960,132	09/28/1999	Lin				

FOREIGN PATENT DOCUMENTS							
Name	Document Number	Date MM/DD/YY	Country	Class	Subclass	Translation Yes/No	
BWH	0 902 538 A2	03/17/1999	EP	385	16X	Yes	
BWH	0 911 659 A1	04/28/1999	EP	385	16X	Yes	
BWH	0 932 066 A1	07/28/1999	EP	385	18X	Yes	
BWH	0 961 150 A2	12/01/1999	EP	385	18X	Yes	
BWH	0 962 796 A2	12/08/1999	EP	385	18X	Yes	
BWH	96/07945	03/14/1996	WO	385	15X	Yes	
BWH	96/07952 A1	03/14/1996	WO	385	37X	Yes	

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date MM/DD/YY	Name	Class	Subclass	Filing Date If Appropriate
	5,960,133	09/28/1999	Tomlinson			
	5,962,949	10/05/1999	Dhuter et al.			
	5,963,367	10/05/1999	Aksyuk et al.			
	5,966,230	10/12/1999	Swartz et al.			
	5,974,207	10/26/1999	Aksyuk et al.			
	5,982,554	11/09/1999	Goldstein et al.			
	5,994,159	11/30/1999	Aksyuk et al.			
	5,995,688	11/30/1999	Aksyuk et al.			
	6,014,240	01/11/2000	Floyd et al.			
	6,016,217	01/18/2000	Dötzel et al.			
	6,020,272	02/01/2000	Fleming			
	6,028,689	02/22/2000	Michalick et al.			
	6,031,946	02/29/2000	Bergmann et al.			
	6,035,080	03/07/2000	Henry et al.			
	6,044,056	03/28/2000	Wilde et al.			
	6,044,765	04/04/2000	Neukermans et al.			

FOREIGN PATENT DOCUMENTS

Name	Document Number	Date MM/DD/YY	Country	Class	Subclass	Translation Yes/No
BuH	96/08059	03/14/1996	WO	385	37X	Yes
BuH	96/18131	06/13/1996	WO	385	18X	Yes
BuH	97/06617	02/20/1997	WO	385	24X	Yes
BuH	98/07060	02/19/1998	WO	385	15X	Yes
BuH	98/35258	08/13/1998	WO	385	17X	Yes
BuH	99/38348	07/29/1999	WO	385	17X	Yes
BuH	00/13210	03/09/2000	WO	385	17X	Yes

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

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OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

BHT	Koester et al., "MUMPS Design Handbook, Revision 5.0", Cronos Integrated Microsystems (2000).	✓
BHT	Mossman et al., "New Reflective Display Based on Total Internal Reflection in Prismatic Microstructures".	✓
BHT	Lin et al., "Lightwave Micromachines for Optical Crossconnects".	✓
BHT	Zou et al., "Optical Properties of Surface Micromachined Mirrors with Etch Holes", 8 Journal of Microelectrical Systems 506-513 (1999) (Abstract).	✓
BHT	Kopka et al., "Coupled U-Shaped Cantilever Actuators for 1 x 4 and 2 x 2 Optical Fibre Switches", 10 J. Micromech. Microeng. 260-264 (2000).	✓
BHT	Reid et al., "Automated Assembly of Flip-Up Micromirrors", 66 Sensors and Actuators 292-298 (1998).	✓
BHT	Riza et al., "Digitally Controlled Fault-Tolerant Multiwavelength Programmable Fiber-Optic Attenuator Using a Two-Dimensional Digital Micromirror Device", 24 Optics Letters 282-284 (1999).	✓
BHT	Kolesar et al., "Implementation of Micromirror Arrays as Optical Binary Switches and Amplitude Modulators", 332 Thin Solid Films 1-9 (1998).	✓
BHT	R. Syms, "Operation of Surface-tension Self-Assembled 3D Micro-Optomechanical Torsion Mirror Scanner", 35 Electronics Letters 1157-1158 (1999).	✓
BHT	Lin et al., "High-Density Micromachined Polygon Optical Crossconnects Exploiting Network Connection-Symmetry", 10 IEEE Photonics Technology Letters 1425-1427 (1998).	✓
BHT	Lee et al., "Free-Space Fiber-Optic Switches Based on MEMS Vertical Torsion Mirrors", 17 Journal of Lightwave Technology 7-13 (1999).	✓
BHT	Yasseen et al., "A Rotary Electrostatic Micromotor 1 x 8 Optical Switch", 5 IEEE Journal of Selected Topics in Quantum Electronics 26-32 (1999).	✓
BHT	Toshiyoshi et al., "Electromagnetic Torsion Mirrors for Self-Aligned Fiber-Optic Crossconnectors by Silicon Micromachining", 5 IEEE Journal of Selected Topics in Quantum Electronics 10-17 (1999).	✓
BHT	Ford et al., "Wavelength Add-Drop Switching Using Tilting Micromirrors", 17 Journal of Lightwave Technology 904-911 (1999).	✓
BHT	Aksyuk et al., "Low Insertion Loss Packaged and Fiber-Connectorized SI Surface-Micromachined Reflective Optical Switch", Solid State Sensor and Actuator Workshop pp. 79-82 (1998).	✓

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